ELSEVIER

Journal of Materials Processing Technology 179 (2006) 280

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Author Index of Volume 179

Abrantes, J.P., 67
Abrão, A.M., 161
Al-Qureshi, H.A., 44
Alfaro, S.C.A., 219
Almeida, I.A., 105
Álvares, A.J., 251
Alves, L.M.M., 36
Alves, M.K., 44
Alves, S.M., 185

Batalha, G.F., 67, 146
Battiston, G.A., 81
Berretta, J.R., 105
Bertolino, G., 202
Boehs, L., 165
Bohorquez, C.E.N., 244
Bonacorso, N.G., 231
Bracarense, A.Q., 239
Bressan, J.D., 1, 23, 74, 81
Buteler, D.I., 50
Button, S.T., 30, 87
Butuc, M.C., 56

Caminaga, C., 87
Campos, H.B., 56
Cardoso, L.P., 30
Carvalho, S.R., 97
Coelho, R.T., 117

da Silva Issii, R.L., 87
da Silva, E.M., 92
da Silva, L.C., 154
da Silva, M.B., 92, 154
da Silva Neto, J.C., 92
Daros, D.P., 81
de Ávila, R.F., 161
de Godoy, G.C.D., 161
de Lima, C.E.C., 67
de Lima, M.S.F., 139
de Melo, A.C.A., 154
de Oliveira Gomes, J., 128, 133
de Oliveira, C.A.S., 196
de Oliveira, J.F.G., 185
de Rossi, W., 105
de S. Mendonça, D., 219
de Santana, I.J., 225
de Siqueira Galoppi, G., 146
Del Guerra, M., 117
Diniz, A.E., 139
Duarte, J.M.F., 56
Dutra, J.C., 231

Ferreira, J.C.E., 251, 260
Filho, L.A.M., 61
Filho, M.S., 146
Foli, C.R.M., 61
Fraymann, J.A., 30

Gerbasi, R., 81
Gilapa, L.M., 81
Gogotsi, Y., 11
Gonçalves Jr, A.A., 231
Grácio, J.J., 56
Guesser, W.L., 165
Guimarães, G., 97

Hashmi, M.S.J., 5
Hatakeyama, K., 276
Helleno, A.L., 172, 178

Jasinevicius, R.G., 111
Júnior, A.M.S., 154
Justino, J.G., 44

Kawakame, M., 74
Klein, A.N., 44
Kratochvil, R., 128

Lima e Silva, S.M.M., 97
Lima, M.S.F., 105
Lippold, J.C., 212
Liu, S., 239

Machado, Á.R., 97, 154
Martins, F.G., 196
Martins, J.A., 30
Martins, P.A.F., 36
Matos, M.S., 219
McNallan, M.J., 11
Mendes, R.P.K., 190
Menezes, M.Â., 61
Modenesi, P.J., 225
Morel, G., 268

Neves, D., 139
Neves, P.C.U., 50
Nogueira, G.E.C., 105

Paulo, B., 225
Pereira, A.A., 165
Pereira, S.C., 172
Perez-Guerrero, F., 239
Perez-Ipiña, J.E., 202
Pessoa, E.C.P., 239
Polli, M.L., 135
Preciado, W.T., 244

Ramirez, A.J., 212
Ramos, L.V., 50
Rocha, J.E., 56
Rodrigues, J.M.C., 36
Rodrigues, M., 276
Rossi, M.A., 190

Santos, C.E.R., 50
Schroeter, R.B., 128, 133
Schützer, K., 172, 178
Simão, J.M., 268
Sinatora, A., 50
Souza, R.M., 50
Sowards, J.W., 212
Stadzisz, P.C., 268

Unfer, R.K., 23

Vaz Jr., M., 207
Verran, G.O., 190
Vieira Jr., N.D., 105
Vivian, D., 260

Weingaertner, W.L., 124, 133
Welz, S., 11
Wetter, N.U., 105

Zdanski, P.S.B., 207
Zeilmann, R.P., 124
Zica, E.M., 239

Elsevier B.V.
doi:10.1016/S0924-0136(06)00722-9

ELSEVIER

Journal of Materials Processing Technology 179 (2006) 280

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Author Index of Volume 179

Abrantes, J.P., 67
Abrão, A.M., 161
Al-Qureshi, H.A., 44
Alfaro, S.C.A., 219
Almeida, I.A., 105
Álvares, A.J., 251
Alves, L.M.M., 36
Alves, M.K., 44
Alves, S.M., 185

Batalha, G.F., 67, 146
Battiston, G.A., 81
Berretta, J.R., 105
Bertolino, G., 202
Boehs, L., 165
Bohorquez, C.E.N., 244
Bonacorso, N.G., 231
Bracarense, A.Q., 239
Bressan, J.D., 1, 23, 74, 81
Buteler, D.I., 50
Button, S.T., 30, 87
Butuc, M.C., 56

Caminaga, C., 87
Campos, H.B., 56
Cardoso, L.P., 30
Carvalho, S.R., 97
Coelho, R.T., 117

da Silva Issii, R.L., 87
da Silva, E.M., 92
da Silva, L.C., 154
da Silva, M.B., 92, 154
da Silva Neto, J.C., 92
Daros, D.P., 81
de Ávila, R.F., 161
de Godoy, G.C.D., 161
de Lima, C.E.C., 67
de Lima, M.S.F., 139
de Melo, A.C.A., 154
de Oliveira Gomes, J., 128, 133
de Oliveira, C.A.S., 196
de Oliveira, J.F.G., 185
de Rossi, W., 105
de S. Mendonça, D., 219
de Santana, I.J., 225
de Siqueira Galoppi, G., 146
Del Guerra, M., 117
Diniz, A.E., 139
Duarte, J.M.F., 56
Dutra, J.C., 231

Ferreira, J.C.E., 251, 260
Filho, L.A.M., 61
Filho, M.S., 146
Foli, C.R.M., 61
Fraymann, J.A., 30

Gerbasi, R., 81
Gilapa, L.M., 81
Gogotsi, Y., 11
Gonçalves Jr, A.A., 231
Grácio, J.J., 56
Guesser, W.L., 165
Guimarães, G., 97

Hashmi, M.S.J., 5
Hatakeyama, K., 276
Helleno, A.L., 172, 178

Jasinevicius, R.G., 111
Júnior, A.M.S., 154
Justino, J.G., 44

Kawakame, M., 74
Klein, A.N., 44
Kratochvil, R., 128

Lima e Silva, S.M.M., 97
Lima, M.S.F., 105
Lippold, J.C., 212
Liu, S., 239

Machado, Á.R., 97, 154
Martins, F.G., 196
Martins, J.A., 30
Martins, P.A.F., 36
Matos, M.S., 219
McNallan, M.J., 11
Mendes, R.P.K., 190
Menezes, M.Â., 61
Modenesi, P.J., 225
Morel, G., 268

Neves, D., 139
Neves, P.C.U., 50
Nogueira, G.E.C., 105

Paulo, B., 225
Pereira, A.A., 165
Pereira, S.C., 172
Perez-Guerrero, F., 239
Perez-Ipiña, J.E., 202
Pessoa, E.C.P., 239
Polli, M.L., 135
Preciado, W.T., 244

Ramirez, A.J., 212
Ramos, L.V., 50
Rocha, J.E., 56
Rodrigues, J.M.C., 36
Rodrigues, M., 276
Rossi, M.A., 190

Santos, C.E.R., 50
Schroeter, R.B., 128, 133
Schützer, K., 172, 178
Simão, J.M., 268
Sinatora, A., 50
Souza, R.M., 50
Sowards, J.W., 212
Stadzisz, P.C., 268

Unfer, R.K., 23

Vaz Jr., M., 207
Verran, G.O., 190
Vieira Jr., N.D., 105
Vivian, D., 260

Weingaertner, W.L., 124, 133
Welz, S., 11
Wetter, N.U., 105

Zdanski, P.S.B., 207
Zeilmann, R.P., 124
Zica, E.M., 239

Elsevier B.V.
doi:10.1016/S0924-0136(06)00722-9

ELSEVIER

Journal of Materials Processing Technology 179 (2006) 281–284

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Subject Index of Volume 179

AISI 304 stainless steel
Theorical and experimental determination of the forming limit diagram for the AISI 304 stainless steel, 56
AISI 52100
Wear on tool steel AISI M2, D6 and 52100 coated with Al_2O_3 by the MOCVD process, 81
Aluminum
Numerical simulation of an aluminum alloy tube hydroforming, 67
Aluminum alloys
Influence of injection parameters on defects formation in die casting Al12Si1,3Cu alloy: Experimental results and numeric simulation, 190
Aluminum–silicon alloys
Study of full-mold casting process for Al–Si hipoeuthetic alloys, 196
Analysis of variance
Optimization of titanium cutting by factorial analysis of the pulsed Nd:YAG laser parameters, 105
Anisotropy
Influence of the yielding criterion on total forming force in metallic junctions using elastomers, 61
Anvil
Effect of anvil geometry on the stretching of cylinders, 50
Axisymmetrical parts
Feature recognition in axisymmetrical parts modeled by solids in an Internet-oriented CAD/CAM system, 260

Boundary layer
Polymer melt flow in plane channels: Hydrodynamic and thermal boundary layers, 207
Brittle-to-ductile response
Influence of cutting conditions scaling in the machining of semiconductors crystals with single point diamond tool, 111
Burr formation
Application of factorial design for studying the burr behaviour during face milling of motor engine blocks, 154

CAD/CAM/CNC
Investigation of tool path interpolation on the manufacturing of die and molds with HSC technology, 178
CAD/CAM/CNC chain
The influence of the manufacturing strategy on the production of molds and dies, 172
Carbide derived carbon
Carbon structures in silicon carbide derived carbon, 11
Carbon
Carbon structures in silicon carbide derived carbon, 11
Casting
Study of full-mold casting process for Al–Si hipoeuthetic alloys, 196
Cavitation
Automation of the processes of surface measurement and of deposition by welding for the recovery of rotors of large-scale hydraulic turbines, 231
CBN
Hard turning of tempered DIN 100Cr6 steel with coated and no coated CBN inserts, 146
Development of new cutting fluid for grinding process adjusting mechanical performance and environmental impact, 185
Chatter
Evaluation of high-speed end-milling dynamic stability through audio signal measurements, 133
Chip–tool interface
Temperature determination at the chip–tool interface using an inverse thermal model considering the tool and tool holder, 97
CNC
WebTurning: Teleoperation of a CNC turning center through the Internet, 251
CNC Lathes
Development of a low cost Touch Trigger Probe for CNC Lathes, 117
Coated drill
Analysis of temperature during drilling of Ti6Al4V with minimal quantity of lubricant, 124
Coatings
The performance of TiN coated carbide tools when turning AISI 8620 steel, 161
Cold extrusion
Alternative lubrication and lubricants for the cold extrusion of steel parts, 87
Composites
Study of wear in self-lubricating composites for application in seals of electric motors, 74
Computer-aided design
Feature recognition in axisymmetrical parts modeled by solids in an Internet-oriented CAD/CAM system, 260
Covered electrode
Porosity variation along multipass underwater wet welds and its influence on mechanical properties, 239
100Cr6
Hard turning of tempered DIN 100Cr6 steel with coated and no coated CBN inserts, 146
Crater wear volume
The performance of TiN coated carbide tools when turning AISI 8620 steel, 161
Cutting fluid
Development of new cutting fluid for grinding process adjusting mechanical performance and environmental impact, 185
Cutting strategies
The influence of the manufacturing strategy on the production of molds and dies, 172

Defects
Influence of injection parameters on defects formation in die casting Al12Si1,3Cu alloy: Experimental results and numeric simulation, 190

Elsevier B.V.
doi:10.1016/S0924-0136(06)00723-0

Design of experiments
Influence of injection parameters on defects formation in die casting Al12Si1,3Cu alloy: Experimental results and numeric simulation, 190
Diamond turning
Influence of cutting conditions scaling in the machining of semiconductors crystals with single point diamond tool, 111
Die and molds
Investigation of tool path interpolation on the manufacturing of die and molds with HSC technology, 178
Die castings
Influence of injection parameters on defects formation in die casting Al12Si1,3Cu alloy: Experimental results and numeric simulation, 190
Dimensional quality monitoring and control
Development of a low cost Touch Trigger Probe for CNC Lathes, 117
Drilling
Analysis of temperature during drilling of Ti6Al4V with minimal quantity of lubricant, 124
Efficiency of the laser texturing on the adhesion of the coated twist drills, 139
Ductility-dip cracking
Improving the ductility-dip cracking resistance of Ni-base alloys, 212

Elastomers
Influence of the yielding criterion on total forming force in metallic junctions using elastomers, 61
Electrochemical machining
Intervening variables in electrochemical machining, 92
Environment
Development of new cutting fluid for grinding process adjusting mechanical performance and environmental impact, 185
Equipment design
Construction and validation tests of a torsion test machine, 23
Experimentation
A new yield function for porous materials, 36

Features
Feature recognition in axisymmetrical parts modeled by solids in an Internet-oriented CAD/CAM system, 260
Finite element method (FEM)
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Analyses of residual stresses on stamped valves by X-ray diffraction and finite elements method, 30
A new yield function for porous materials, 36
Effect of anvil geometry on the stretching of cylinders, 50
Numerical simulation of an aluminum alloy tube hydroforming, 67
Ferritic stainless steels
High frequency induction welding simulating on ferritic stainless steels, 225
Finite differences
Polymer melt flow in plane channels: Hydrodynamic and thermal boundary layers, 207
Forging
Effect of anvil geometry on the stretching of cylinders, 50
Forming
Influence of the yielding criterion on total forming force in metallic junctions using elastomers, 61
Forming limit curve
Theorical and experimental determination of the forming limit diagram for the AISI 304 stainless steel, 56
Forming limit diagram
Theorical and experimental determination of the forming limit diagram for the AISI 304 stainless steel, 56
Fracture toughness
Geometrical effects on lamellar grey cast iron fracture toughness, 202
Full-mold process
Study of full-mold casting process for Al–Si hipoeuthetic alloys, 196

Graphite
High-speed finishing milling of industrial graphite electrodes, 128
Gray cast irons
Application of factorial design for studying the burr behaviour during face milling of motor engine blocks, 154
The influence of sulfur on the machinability of gray cast iron FC25, 165
Geometrical effects on lamellar grey cast iron fracture toughness, 202
Grinding
Development of new cutting fluid for grinding process adjusting mechanical performance and environmental impact, 185

Hard coatings
Hard turning of tempered DIN 100Cr6 steel with coated and no coated CBN inserts, 146
Hard turning
Hard turning of tempered DIN 100Cr6 steel with coated and no coated CBN inserts, 146
Heat flux identification
Temperature determination at the chip–tool interface using an inverse thermal model considering the tool and tool holder, 97
High frequency induction welding
High frequency induction welding simulating on ferritic stainless steels, 225
High speed cutting
Evaluation of high-speed end-milling dynamic stability through audio signal measurements, 133
The influence of the manufacturing strategy on the production of molds and dies, 172
Investigation of tool path interpolation on the manufacturing of die and molds with HSC technology, 178
H-MES
Manufacturing execution systems for customized production, 268
Holonified simulation tool
Manufacturing execution systems for customized production, 268
Hydraulic turbines
Automation of the processes of surface measurement and of deposition by welding for the recovery of rotors of large-scale hydraulic turbines, 231
Hydroforming
Numerical simulation of an aluminum alloy tube hydroforming, 67

Industrial maintenance
Analysis of the fall of TPM in companies, 276
Industrial management
Analysis of the fall of TPM in companies, 276
Injection molds
Repair welding of polymer injection molds manufactured in AISI P20 and VP50IM steels, 244
Injection moulding
Polymer melt flow in plane channels: Hydrodynamic and thermal boundary layers, 207
Intergranular precipitates
Improving the ductility-dip cracking resistance of Ni-base alloys, 212
Internet
WebTurning: Teleoperation of a CNC turning center through the Internet, 251
Feature recognition in axisymmetrical parts modeled by solids in an Internet-oriented CAD/CAM system, 260
Inverse problem
Temperature determination at the chip–tool interface using an inverse thermal model considering the tool and tool holder, 97

Joule effect and porosity
Porosity variation along multipass underwater wet welds and its influence on mechanical properties, 239

Junctions
Influence of the yielding criterion on total forming force in metallic junctions using elastomers, 61

Laser machining
Optimization of titanium cutting by factorial analysis of the pulsed Nd:YAG laser parameters, 105
Efficiency of the laser texturing on the adhesion of the coated twist drills, 139
Lubricants
Alternative lubrication and lubricants for the cold extrusion of steel parts, 87

Machinability
The influence of sulfur on the machinability of gray cast iron FC25, 165
Machining
High-speed finishing milling of industrial graphite electrodes, 128
Hard turning of tempered DIN 100Cr6 steel with coated and no coated CBN inserts, 146
Machining temperature
Temperature determination at the chip–tool interface using an inverse thermal model considering the tool and tool holder, 97
Manganese sulfide
The influence of sulfur on the machinability of gray cast iron FC25, 165
e-Manufacturing
WebTurning: Teleoperation of a CNC turning center through the Internet, 251
Manufacturing
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Mass-customisation
Manufacturing execution systems for customized production, 268
Mechanical behaviour
Geometrical effects on lamellar grey cast iron fracture toughness, 202
Metrology
Automation of the processes of surface measurement and of deposition by welding for the recovery of rotors of large-scale hydraulic turbines, 231
Milling
High-speed finishing milling of industrial graphite electrodes, 128
Evaluation of high-speed end-milling dynamic stability through audio signal measurements, 133
Application of factorial design for studying the burr behaviour during face milling of motor engine blocks, 154
MK method
Theorical and experimental determination of the forming limit diagram for the AISI 304 stainless steel, 56
MOCVD process
Wear on tool steel AISI M2, D6 and 52100 coated with Al_2O_3 by the MOCVD process, 81
Molds and dies
The influence of the manufacturing strategy on the production of molds and dies, 172

Nanopores
Carbon structures in silicon carbide derived carbon, 11
Nanotube
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Nb
Improving the ductility-dip cracking resistance of Ni-base alloys, 212
Nd:YAG laser
Optimization of titanium cutting by factorial analysis of the pulsed Nd:YAG laser parameters, 105
Nickel base alloys
Improving the ductility-dip cracking resistance of Ni-base alloys, 212
Non-traditional machining processes
Intervening variables in electrochemical machining, 92

On-machine measuring systems
Development of a low cost Touch Trigger Probe for CNC Lathes, 117

Phosphatization
Alternative lubrication and lubricants for the cold extrusion of steel parts, 87
Pin-on-disc
Study of wear in self-lubricating composites for application in seals of electric motors, 74
Pipe
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Plasma
Emission spectrometry evaluation in arc welding monitoring system, 219
Plasticine
Effect of anvil geometry on the stretching of cylinders, 50
Plasticity
Construction and validation tests of a torsion test machine, 23
Numerical simulation of an aluminum alloy tube hydroforming, 67
Polishing
Repair welding of polymer injection molds manufactured in AISI P20 and VP50IM steels, 244
Polymers
Study of wear in self-lubricating composites for application in seals of electric motors, 74
Porous material models
A comparative analysis of elasto-plastic constitutive models for porous sintered materials, 44
Powder compaction
A comparative analysis of elasto-plastic constitutive models for porous sintered materials, 44
Powder forging
A new yield function for porous materials, 36
Product-driven control
Manufacturing execution systems for customized production, 268

Repair welding
Repair welding of polymer injection molds manufactured in AISI P20 and VP50IM steels, 244
Residual stresses
Analyses of residual stresses on stamped valves by X-ray diffraction and finite elements method, 30
Resistance welding
High frequency induction welding simulating on ferritic stainless steels, 225
Robotics
Automation of the processes of surface measurement and of deposition by welding for the recovery of rotors of large-scale hydraulic turbines, 231
Roughness
Intervening variables in electrochemical machining, 92

Seamless
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Semiconductors crystals
Influence of cutting conditions scaling in the machining of semiconductors crystals with single point diamond tool, 111
Silicon carbide
Carbon structures in silicon carbide derived carbon, 11
Simulation
Influence of injection parameters on defects formation in die casting Al12Si1,3Cu alloy: Experimental results and numeric simulation, 190
High frequency induction welding simulating on ferritic stainless steels, 225

Sintering
A comparative analysis of elasto-plastic constitutive models for porous sintered materials, 44
Solid modeling
Feature recognition in axisymmetrical parts modeled by solids in an Internet-oriented CAD/CAM system, 260
Spectrometry
Emission spectrometry evaluation in arc welding monitoring system, 219
Stamping
Analyses of residual stresses on stamped valves by X-ray diffraction and finite elements method, 30
Wear on tool steel AISI M2, D6 and 52100 coated with Al_2O_3 by the MOCVD process, 81
Steel
Alternative lubrication and lubricants for the cold extrusion of steel parts, 87
Hard turning of tempered DIN 100Cr6 steel with coated and no coated CBN inserts, 146
Stretching
Effect of anvil geometry on the stretching of cylinders, 50
Sulfur
The influence of sulfur on the machinability of gray cast iron FC25, 165
Surface quality
Analysis of temperature during drilling of Ti6Al4V with minimal quantity of lubricant, 124

Telemanufacturing
WebTurning: Teleoperation of a CNC turning center through the Internet, 251
Teleoperation
WebTurning: Teleoperation of a CNC turning center through the Internet, 251
Temperature
Analysis of temperature during drilling of Ti6Al4V with minimal quantity of lubricant, 124
Texturing
Repair welding of polymer injection molds manufactured in AISI P20 and VP50IM steels, 244
Ti
Improving the ductility-dip cracking resistance of Ni-base alloys, 212
TIG
Repair welding of polymer injection molds manufactured in AISI P20 and VP50IM steels, 244
Titanium
Optimization of titanium cutting by factorial analysis of the pulsed Nd:YAG laser parameters, 105
Tool coating
Efficiency of the laser texturing on the adhesion of the coated twist drills, 139
Tool path interpolation
Investigation of tool path interpolation on the manufacturing of die and molds with HSC technology, 178
Tool steel
Wear on tool steel AISI M2, D6 and 52100 coated with Al_2O_3 by the MOCVD process, 81
Topographic analysis
The performance of TiN coated carbide tools when turning AISI 8620 steel, 161
Torsion test
Construction and validation tests of a torsion test machine, 23
Touch Trigger Probes
Development of a low cost Touch Trigger Probe for CNC Lathes, 117
TPM
Analysis of the fall of TPM in companies, 276
Transmission electron microscopy
Carbon structures in silicon carbide derived carbon, 11
Tribology
Study of wear in self-lubricating composites for application in seals of electric motors, 74
Tube
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Numerical simulation of an aluminum alloy tube hydroforming, 67
Turning
The performance of TiN coated carbide tools when turning AISI 8620 steel, 161

Underwater wet welding
Porosity variation along multipass underwater wet welds and its influence on mechanical properties, 239

Wear
Study of wear in self-lubricating composites for application in seals of electric motors, 74
Wear test
Wear on tool steel AISI M2, D6 and 52100 coated with Al_2O_3 by the MOCVD process, 81
Welded
Aspects of tube and pipe manufacturing processes: Meter to nanometer diameter, 5
Welding
Automation of the processes of surface measurement and of deposition by welding for the recovery of rotors of large-scale hydraulic turbines, 231
Emission spectrometry evaluation in arc welding monitoring system, 219
Welding monitoring
Emission spectrometry evaluation in arc welding monitoring system, 219
Work hardening
Construction and validation tests of a torsion test machine, 23
Wrinkling
Numerical simulation of an aluminum alloy tube hydroforming, 67

X-ray diffraction
Analyses of residual stresses on stamped valves by X-ray diffraction and finite elements method, 30

Yielding criterion
Influence of the yielding criterion on total forming force in metallic junctions using elastomers, 61